

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,817	08/21/2002	Nigel Dennis Griffin	78.1151-1	9775
26932 7.	590 06/23/2004		EXAMINER	
GRANT PRIDECO, L.P.			JENKINS, DANIEL J	
JEFFREY E. DALY 1330 POST OAK BLVD. SUITE 2700			ART UNIT	PAPER NUMBER
HOUSTON, TX 77056			1742	
			DATE MAILED: 06/23/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

c.f	
DENNIS	
ddress	
ely. communication.	
e merits is	
FR 1.121(d). ΓΟ-152.	
Stage	

	Application No.	Applicant(s)				
	10/064,817	GRIFFIN, NIGEL DENNIS				
Office Action Summary	Examiner	Art Unit				
	Daniel J. Jenkins	1742				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a result of the second of the specified above, the maximum statutory perion of the specified above is less than thirty and the specified above is less than the specified above. The specified above is less than thirty (30) days, a result of the specified above is less than thirty (30) days, a result of the specified above, the maximum statutory perion of the specified above is less than thirty (30) days, a result of the specified above, the maximum statutory perion of the specified above, the	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi lod will apply and will expire SIX (6) MO tute. cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on 15	5 March 2004					
_						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde						
Disposition of Claims	, , ,					
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application	on					
4a) Of the above claim(s) is/are withd						
5) Claim(s) is/are allowed.	rami nom consideration.					
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	I/or election requirement.					
Application Papers	·					
9)☐ The specification is objected to by the Exami	ner					
10) The drawing(s) filed on is/are: a) a		by the Everiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152				
Priority under 35 U.S.C. § 119		2 - 1,100 / 101,101 01 101111 1 TO 132.				
12) Acknowledgment is made of a claim for foreig	an nriority under 25 LLC C	2 440(-) (-1) (0				
a) ☐ All b) ☐ Some * c) ☐ None of:	gn phonty under 35 O.S.C. §	3 119(a)-(a) or (t).				
1.☐ Certified copies of the priority docume	nts have been received					
	_					
3. Copies of the certified copies of the pri						
	poon	Tooched in this Hational Stage				
application from the International Bure	au (PCT Rule 17.2(a)).					
application from the International Bure		receivéd				
application from the International Bure * See the attached detailed Office action for a list		received.				
application from the International Bure * See the attached detailed Office action for a lis		received.				
application from the International Bure * See the attached detailed Office action for a list attachment(s)	st of the certified copies not					
application from the International Bure * See the attached detailed Office action for a list attachment(s) ☐ Notice of References Cited (PTO-892)	st of the certified copies not 4) Interview S	Summary (PTO-413)				
application from the International Bure * See the attached detailed Office action for a list attachment(s)	st of the certified copies not 4) Interview S Paper No(s					

Page 2

Application/Control Number: 10/064,817

Art Unit: 1742

- 1. The Examiner has carefully considered Applicant's Response of 3/15/04. The Examiner finds the TD proper and withdraws the double patenting rejection. However, the Examiner maintains the rejection based on Griffin et al. '447. Applicant argues that his invention is distinguished from the prior art in that Applicant's invention has a second substrate which is not disclosed by Griffin et al. The Examiner notes that the rejection includes a second substrate (20) which contains a polycrystalline diamond component, which is disclosed as one of the materials by the Applicant for the second substrate (see Specification [0011], and which is not precluded by Applicant's claim language.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-9, 11-16 and 18-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffin et al. '447.

Griffin et al. '447 discloses a method of making a cutter (see figures 3 and 4 for engagement) comprising:

providing a first substrate (19);

providing a second substrate (20);

providing a polycrystalline/catalyst component (21); and

bonding the first and second substrate to the polycrystalline/catalyst component under high temperature and pressure (col. 6, lines 43-51).

Application/Control Number: 10/064,817

Art Unit: 1742

Griffin et al. '447 further discloses wherein the catalyst comprises cobalt (col. 7, lines 6-9).

Griffin et al. '447 further discloses wherein the cutter is engaged on a third substrate (28).

Griffin et al. '447 further discloses wherein the first substrate is in annular form.

4. Claims 10 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin et al. '447.

Griffin et al. '447 discloses the invention substantially as claimed (see paragraph 2 above). However, Griffin e al. '447 do not disclose wherein the first substrate is grooved.

It is common knowledge in the same field of endeavor to groove a surface of a substrate cutter in the same field of endeavor for the purpose of improving the bonding between a substrate and a diamond/binder component.

It would have been obvious to one having ordinary skill in the art at the time of the invention to groove the substrate (19) in the invention of Griffin et al. '447 in order to improve the bond to the diamond/binder component.

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 1742

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1742

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Jenkins Primary Examiner Art Unit 1742